Amendments To the Claims:

Please amend the claims as shown.

1. (currently amended) A steam turbine ~~(20) having~~ comprising:

a rotor ~~(21), which is provided with~~ having a ~~number~~ plurality of rotor blades ~~(22) and, together with a number;~~

a plurality of guide vanes ~~(24), is arranged inside~~ spaced apart from the blades; and

a casing shell ~~(23)~~ formed ~~from a number~~ by a plurality of casing segments, at least one of the casing segments ~~being~~ provided with ~~a number of~~ at least one integrated cooling channels ~~(29)~~, wherein the rotor and the plurality of guide vanes are arranged inside the casing shell.

2. (currently amended) The steam turbine ~~(20)~~ as claimed in claim 1, ~~in which~~ wherein the ~~or each~~ cooling channel ~~(29)~~ is positioned inside ~~the~~ a wall of ~~the~~ a corresponding casing segment, the cooling channel offset toward ~~the~~ a inner surface ~~relative to the center plane~~ of said wall relative to a center plane.

3. (currently amended) The steam turbine ~~(20)~~ as claimed in claim 1 ~~or 2~~, ~~in which~~ wherein the ~~or each~~ cooling channel ~~(29)~~ is oriented substantially in the longitudinal direction of the rotor ~~(21)~~.

4. (currently amended) The steam turbine ~~(20)~~ as claimed in ~~one of~~ claims 1 ~~to 3~~, ~~in which~~ wherein the rotor blades ~~(22)~~ and guide vanes ~~(24) are combined to~~ form a ~~number~~ plurality of blade/vane rows, the ~~or each~~ cooling channel ~~(29)~~ extending over at least two~~, preferably more,~~ successive blade/vane rows, as ~~seen~~ viewed in the longitudinal direction of the rotor ~~(21)~~.

5. (currently amended) The steam turbine ~~(20)~~ as claimed in ~~one of~~ claims 1 ~~to 4~~, ~~in which~~ wherein the cooling channels ~~(29)~~ are combined to form a common cooling system which is integrated in the casing shell ~~(23)~~.

6. (currently amended) The steam turbine ~~(20)~~ as claimed in claim 5, wherein the cooling system ~~of which~~ comprises a ~~number~~ plurality of branch channels oriented in the circumferential direction of the corresponding casing segment.

7. (currently amended) The steam turbine ~~(20)~~ as claimed in claim 5 ~~or 6~~, wherein a plurality of guide vanes are attached to the casing shell ~~(23) of which a number of guide vanes (24)~~, ~~which~~ wherein each of the guide vanes ~~can each be~~ is cooled via an integrated branch channel connected to the cooling system~~, are attached~~.

8. (currently amended) The steam turbine ~~(20)~~ as claimed in ~~one of~~ claims 1 ~~to 7~~, ~~in which~~ wherein the ~~or each~~ cooling channel ~~(29)~~ is connected~~,~~ via a number of overflow openings~~,~~ to a flow space for a flow medium, the flow space surrounded by the casing shell ~~(23), for a flow medium~~.

9. (currently amended) The steam turbine ~~(20)~~ as claimed in claim 8, ~~in which~~ wherein the respective cooling channel ~~(29)~~ and the overflow openings are dimensioned ~~in~~ such ~~a manner~~ that in the operating state the coolant is at a slightly higher pressure than the flow medium.

10. (currently amended) The steam turbine ~~(20)~~ as claimed in claim 9, ~~in which~~ wherein the ~~or each~~ cooling channel ~~(29)~~ has at least one overflow opening for each turbine stage.

11. (currently amended) The steam turbine ~~(20)~~ as claimed in ~~one of~~ claims 1 ~~to 10~~, ~~in which~~ wherein the ~~or each~~ cooling channel ~~(29) can be~~ is supplied with steam as coolant.

12. (currently amended) A method for operating a steam turbine having a casing shell formed by a plurality of casing segments ~~(20)~~, ~~in particular the steam turbine as claimed in one of claims 1 to 10, in which~~ comprising:

providing at least one cooling channel integrated into a casing segment or a casing shell;

at least partially admitting coolant via the cooling channel to the ~~a~~ casing shell ~~(23) which delimits~~ delimiting the ~~flow~~ space for ~~the~~ a flow medium ~~is at least partially acted on by coolant via a number of integrated cooling channels (29),~~; and

flowing the flow medium through the cooling channel.

13. (currently amended) The method as claimed in claim 12, ~~in which~~ wherein the coolant is guided in a combined cooling system formed by the cooling passages ~~(29)~~.

14. (currently amended) The method as claimed in claim 12 ~~or 13~~, ~~in which~~ wherein the coolant~~,~~ entering from the cooling passage~~s (29),~~ is admixed to the flow medium.

15. (currently amended) The method as claimed in claim 14, ~~in which~~ wherein the coolant is fed into the flow medium at a pressure which is more than the pressure prevailing in the flow medium at the corresponding mixing location.

16. (currently amended) The method as claimed in ~~one of~~ claim~~s~~ 12 ~~to 15~~, ~~in which~~ wherein the coolant is guided at a pressure which, as ~~seen~~ viewed in the longitudinal direction of the rotor ~~(21)~~, is matched to the pressure prevailing locally in the flow space of the flow medium.

17. (new) The steam turbine as claimed in claim 2, wherein the cooling channel is oriented substantially in the longitudinal direction of the rotor.

18. (new) The steam turbine as claimed in claim 2, wherein the rotor blades and guide vanes form a plurality of blade/vane rows, the cooling channel extending over at least two successive blade/vane rows, as viewed in the longitudinal direction of the rotor.

19. (new) The steam turbine as claimed in claim 2, wherein the cooling channels are combined to form a common cooling system which is integrated in the casing shell.

20. (new) The steam turbine as claimed in claim 2, wherein the cooling channel is connected via a number of overflow openings to a flow space for a flow medium, the flow space surrounded by the casing shell.